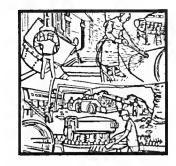


CURRENT INDUSTRIAL REPORTS

Manufacturers' Shipments, Inventories, and Orders

C56.216 M3-1(72)-12

December 1972



U. S. DEPARTMENT OF COMMERCE • Social and Economic Statistics Administration • BUREAU OF THE CENSUS

FOR RELEASE: February 2, 1973

SERIES: M3-1(72)-12

SUMMARY

New orders for manufactured products in December decreased \$270 million or 0.4 percent to \$67.32 billion from \$67.59 billion in November, after seasonal adjustment. Shipments in December decreased \$255 million or 0.4 percent to \$66.30 billion. Since new orders exceeded shipments, unfilled orders increased \$1.02 billion or 1.2 percent to \$84.97 billion at the end of December. Manufacturers' inventories increased \$810 million or 0.8 percent to \$107.18 billion at the end of December. The inventories to shipments ratio increased from 1.60 to 1.62.

For the 3 months ending in December, the average month to month change in new orders was a 0.8 percent increase compared with a 1.1 percent increase for the 3 months ending in September and a 1.4 percent increase for the 3 months ending in June.

NEW ORDERS

New orders for durable goods decreased \$345 million or 0.9 percent to \$37.27 billion in December. Decreases in new orders were reported by motor vehicles and parts (\$380 million)¹, electrical machinery (\$190 million) and aircraft and parts (\$185 million). These decreases were partially offset by increases in fabricated metal products (\$220 million) and nonelectrical machinery (\$150 million).

SHIPMENTS

Shipments of durable goods decreased \$415 million or 1.1 percent to \$36.34 billion in December. The December decline in shipments was due primarily to decreases in motor vehicles and parts (\$375 million), electrical machinery (\$100 million) and aircraft and parts (\$100 million).

¹It should be noted that new orders for the motor vehicles industry are not reported as such but are estimated as equal to shipments. Hence a sizeable decrease in shipments is necessarily accompanied by a similar decrease in new orders.

These decreases were partially offset by increases in primary metals (\$255 million) and non-electrical machinery (\$105 million). Shipments of nondurable goods manufacturers increased \$160 million, or 0.5 percent, to \$29.96 billion from \$29.80 billion in November.

UNFILLED ORDERS

Unfilled orders of durable goods increased \$935 million or 1.2 percent to \$80.98 billion at the end of December, led by nonelectrical machinery (\$535 million), electrical machinery (\$155 million) and fabricated metal products (\$140 million).

INVENTORIES

Inventories of durable goods and nondurable goods increased \$550 million and \$260 million respectively in December. At the all manufacturing level, materials and supplies increased \$165 million, goods in process increased \$530 million and finished goods increased \$115 million.

SCHEDULED RELEASE DATES

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for January is scheduled for release on February 22, 1973 and the full report is scheduled for release on March 5, 1973.

For an explanation of terms used in this report see appendix following table 5.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Social and Economic Statistics Administration, Bureau of the Census, Industry Division, Washington, D.C. 20233.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP

Millions of dollars!

			Chin	nents	s of doll	_			Total in	ronto el e-		
			Ship						lotal in		_	
Industry group	Seaso	naily adj	usted		out seas djustment		Seaso	nally ad	justed		hout seas	
	0ec. 1972 ^p	Nov. 1972	Oct. 1972	Dec. 1972 ^p	Nov. 1972	Dec. 1971	0ec. 1972 ^p	Nov. 1972	Oct. 1972	0ec, 1972 ^p	Nov. 1972	Dec. 1971
All manufacturing indus-												
tries:					66 210	55 201		100 271	100 000		105 010	
Total	66,299	66,553	64,725	63,360	66,310	55,321	107,181	106,371	106,008	106,775	105,849	101,293
portation	57,999	57,756	55,966	55,146	57,023	48,499	90,423	89,790	89,522	90,107	89,132	86,202
Durable goods industries, total.	36,336	36,750	36,086	34,755	36,557	29,696	70,192	69,641	69,330	69,741	69,233	65,446
Stone, clay, and glass products.	2,154	2,149	2,130	1,923	2,114	1,575	2,388	2,378	2,385	2,330	2,270	2,226
Primary metals, total	6,002	5,747	5,752	5,471	5,437	4,209	9,578	9,617	9,664	9,763	9,699	9,378
Blast furnaces, steel mills.	3,042	2,933	2,916	2,723	2,675	1,959	5,255	5,321	5,347	5,454	5,433	5,087
Nonferrous metals	2,169 791	2,058 756	2,110 726	2,019 729	2,025 737	1,693 557	3,410 913	3,390	3,434	3,403 906	3,383	3,456 835
Fabricated metal products												
total	3,497	3,490	3,562	3,377	3,448	3,088	7,553	7,541	7,605	7,400	7,362	7,115
Wetal cans, barrels, and drums	411	433	440	357	380	350	663	680	673	609	629	674
d runs	411	133	110	551	3.00	350	000	000	010		023	0.4
Machinery, except electrical.	6,039	5,933	5,779	5,826	5,602	5,127	14,218	13,944	13,747	14,190	13,864	13,467
Engines and turbines	459	428	418	511	414	540	1,340	1,316	1,323	1,344	1,338	1,232
Farm machinery and equipment.	622	679	631	199	509	390	1,202	1,196	1,186	1,210	1,171	1,057
Construction, mining, and material handling equipment.	977	971	944	849	885	729	2,794	2,621	2,574	2,816	2,600	2,643
Metalworking machinery General industrial machinery	467 495	411 473	414	490 179	401 445	383 412	1,226 1,200	1,227	1,174	1,213	1,226	1,151
Electrical machinery, total	4,975	5,075	4,833	5,022	5,224	4,544	10,363	10,323	10,262	10,179	10,207	9,671
Electrical transmission and	.,.						,					
distribution equipment and industrial apparatus	932	958	924	9311	958	905	2,312	2,275	2,234	2,304	2,252	2,082
Household appliances	727	713	655	662	680	570	1,060	1,066	1,067	1,044	1,033	1,073
Radio and TV	482	512	438	526	574	1 222	943 2,938	923	926	882 2,903	908	701
Communication equipment	1,223	1,231	1,145	1,272	1,251	1,233	2,938	2,983	2,971	2,203	2,974	2,921
Transportation equipment, total	8,300	8,797	8,759	8,214	9,287	6,822	16,758		16,486	16,668	16,717	15,091
Motor vehicles and parts Aircraft, missiles, and	5,455	5,831	5,653	5,118	6,248	4,151	4,292	4,297	4,358	1,318	4,374	3,953
parts	2,001	2,099	2,145	2,242	2,181	1,856	9,506	9,366	9,263	9,394	9,387	8,796
Shipbuilding and railroad equipment	517	538	632	573	551	603	2,294	2,222	2,179	2,294	2,285	1,747
												,
Instruments and related products, total	1,091	1,126	1,057	1,097	1,152	990	2,619	2,625	2,613	2,541	2,569	2,380
Scientific and engineering	541	550	565	530	543	485	1,548	1,525	1,515	1,518	1,514	1,414
All other instruments and related products	550	576	522	567	609	505	1,071	1,090	1,098	1,023	1,055	966
retated productoring.	5017		0 2 0		000		-10.2	1,000	.,	-1	1,000	
All other durable goods	4,278	4, 433	4, 184	3,425	4,293	3,341	6,715	6,632	6,568	6,670	6,545	6,118
Industries	3.5.0	4, 435	4,104	3, 123	4,255	3,341	0,113	0,032	0,500	,,,,,,	0,545	0,110
Nondurable goods industriés.	29,963	29,803	28,639	28,605	29,753	25,625	36,989	36,730	36,678	37,034	36.616	35,847
total	25, 5ma	29,803	24,000	25,005	29,100	40,120	50,505	30,130	30,010	37,034	30,010	33,547
Food and kindred products,	10,009	9.869	9,411	9,938	0,961	5,883	9,333	9,294	9,322	9,628	9,728	9,460
Meat products	2,342	2,296	2,025	2,323	2,229	2,107	831	859	882	839	874	824
Fats and oils	642	589	573	614	615	456	727	752	7.28	776	807	782
Tobacco products	511	549	533	505	547	479	2,433	2,390	2,329	2,540	2,385	2,333
Textile mill products	2,516	2,426	2,214	2,400	2,485	2,077	3,825	3,867	3,859	3,720	3,689	3,524
Paper and allied products.												
total	2,392	2,453	2,412	2,268	2,416	2,077	2,812	2,793	2,786	2,803	2,745	2,760
Pulp, paper, etc	953 7 t1	1,015	985	926 655	995 700	8 19 628	1,020 849	1,010	1,023 837	1,018 832	999	1,067 815
All other paper containers	738	731	747	687	721	600	943	947	926	953	916	878
Chemicals and allied products.												
total	5,269	1,983	4,907	4,722	4,818	4,026	6,835	6,831	6,801	6,859	6,722	6,720
Industrial chemcials, except	1,620	1,540	1,477	1,479	1,476	1.281	1,877	1,907	1,898	1,909	1,897	1,937
Drugs, soap, and toiletries.	1,551	1,540	1,507	1,424	1,476	1,281	2,232		2,162	2,201	2,127	2,075
			9 270			2,149	9 913		2,261	9 979	2,296	2,298
Petroleum and coal products Rubber and plastics products.	2,482	2,476	2,377	2,494	2,468	2,119	2,241	2,264	2,201	2,273	2,276	
n.e.c	1,440	1,546	1,536	1,328	1,493	1,314	2,346	2,277	2,255	2,346	2,271	2,152
All other mondurable goods industries	5,344	5,501	5,249	4,950	5,565	4,620	7,164	7,014	7,065	6,865	6,780	6,600
					1						1	

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP--Continued Millions of dollars

			New o	rders					Unfilled	orders		
Industry group	Seaso	nally adj	usted		nout seaso djustment		Seaso	nally adj	usted		out seaso justment	
	Dec. 1972 ^p	Nov. 1972 ^T	Oct. 1972	Dec. 1972 ^p	Nov. 1972	Dec. 1971	Dec. 1972 ^p	Nov. 1972 ^r	Oct. 1972	Dec. 1972 ^p	Nov. 1972 r	Dec. 1971
All manufacturing indus- tries:												
Total Total, excluding trans- portation	67,319 58,939	67,587 58,738	65,454 56,464	64,685 56,397	67,102 57,716	55,663 48,692	84,965 59,963	83,947 59,025	82,906 58,037	84,346 59,289	83,015 58,032	72,478 51,162
portation	30,333	30,130	30,404	30,337	37,710	40,052	55,505	35,023	30,031	33,203	36,032	51,162
Durable goods industries, total.	37,272	37,619	36,759	36,052	37,167	30,026	80,982	80,047	79,174	80,416	79,115	69,415
Primary metals, total	5,982	5,914	5,727	5,814	5,775	4,506	8,482	8,503	8,335	8,285	7,942	5,907
Slast furnaces, steel mills. Nonferrous metals	2,992 2,177	3,008 2,132	2,927 2,023	2,965 2,091	2,946 2,069	2,203 1,722	5,331 2,061	5,381 2,053	5,305 1,979	5,187 2,016	4,945 1,944	3,339 1,707
Fabricated metal products	3,637	3,417	3,554	3,529	3,339	3,085	10,165	10,025	10,097	10,155	10,002	9,423
Machinery, except electrical,		6 122	6,074		6,014	5,157	45 505	14,969	11 177		11 016	10 520
total	6,575	6,423	0,014	6,370	6,014	3,137	15,506	14,969	14,477	15,391	14,846	12,539
Engines and turbines Construction, mining, and	715	591	479	774	547	568	4,375	4,119	3,956	4,358	4,096	3,457
material bandling equipment.	1,100	1,055	957	936	934	800	2,800	2,677	2,593	2,721	2,634	2,384
Metalworking machinery	512	500	450	532	479	372	1,337	1,292	1,203	1,338	1,297	959
General industrial machinery.	541	526	561	547	503	432	1,536	1,489	1,436	1,523	1,455	1,250
Electrical machinery, total	5,132	5,322	5,174	5,236	5,207	4,467	15,313	15,157	14,910	15,189	14,975	14,325
Electrical transmission and												
distribution equipment and	987	1.044	984	1,023	1,016	911	4,365	4.311	4,225	4.342	4,249	3,832
<pre>industrial apparatus Household appliances</pre>	736	704	665	672	664	567	161	152	161	151	141	127
Radio and TV	458	518	466	534	488	404	682	707	701	649	641	454
Communication equipment	1,214	1,314	1,304	1,237	1,207	1,190	5,868	5,877	5,794	5,845	5,880	6,228
Transportation equipment.						1						
total	6,380	8,849	8,990	8,288	9,386	6,971	25,002	24,922	24,869	25,057	24,983	21,316
Aircraft, missiles, and												
Shipbuilding and railroad	1,994	2,178	2,228	2,219	2,201	2,014	16,637	16,645	16,564	16,516	16,539	14,207
equipment	569	472	634	580	484	457	5,520	5,467	5,534	5,597	5,590	4,688
All other durable goods												
industries	7,566	7,694	7,240	6,815	7,446	5,840	6,514	6,471	6,486	6,339	6,367	5,905
Nondurable goods industries, total	30,047	29,968	28,695	28,633	29,935	25,63 7	3,983	3,900	3,732	3,930	3,900	3,063
Industries with unfilled							0					
orders Industries without unfilled	7,914	8,049	7,710	7,643	8,214	6,859	3,983	3,900	3,732	3,930	3,900	3,063
orders	22,133	21,919	20,985	20,990	21,721	18,778	~	-	-	-	-	-

⁻ Represents zero. Preliminary. Revised.

Adjusted for trading-day and calendar-month variations.

Table 2.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES
(Mullions of dollars)

Nov. 1972 T 0 66,553 6 36,750 8 29,803 0 7,020 0 12,605 2 9,464 6 6,610 2 5,772 2 25,082 8 3,310 8 9,207 1,801	64,725 36,086 28,639 6,439 12,130 9,287 6,410 5,699 24,760 3,016 10,897 9,038	0ec. 1972 ^P ments 63,360 34,755 28,605 6,168 12,519 9,483 5,790 5,215 24,185 3,018 11,187 9,234	Nov. 1972r 66,310 36,557 29,753 6,971 12,736 9,233 6,972 5,643 24,755	Dec. 1971 55,321 29,696 25,625 5,361 11,412 8,401 4,734 4,589 20,824 2,540 10,070	Dec., 1972 ^p 107,181 70,192 36,989 11,812 14,410 28,221 5,742 8,667 38,329 5,496	106,371 69,641 36,730 11,633 14,259 27,815 5,759 8,577 38,328	106,008 69,330 36,678 11,593 14,236 27,452 5,806 8,653 38,268	Dec. 1972 Per 1972 Pe	Nov. 1972 ^r 5 105,849 69,233 36,616 11,188 14,544 27,766 5,793 8,384 38,174	Dec. 1971 101,293 65,446 35,847 10,471 14,263 26,198 5,250 8,066 37,045
36,750 329,803 7,020 12,605 29,464 36,610 5,772 25,082 3,310 811,008 9,207	64,725 36,086 28,639 6,439 12,130 9,287 6,410 5,699 24,760 3,016 10,897 9,038	63,360 34,755 28,605 6,168 12,519 9,483 5,790 5,215 24,185 3,018 11,187 9,234	36,557 29,753 6,971 12,736 9,233 6,972 5,643 24,755	29,696 25,625 5,361 11,412 8,401 4,734 4,589 20,824 2,540	70,192 36,989 11,812 14,410 28,221 5,742 8,667 38,329 5,496	106,371 69,641 36,730 11,633 14,259 27,815 5,759 8,577 38,328	106,008 69,330 36,678 11,593 14,236 27,452 5,806 8,653 38,268	106,775 69,741 37,034 11,393 14,706 28,065 5,756 8,548	105,849 69,233 36,616 11,188 14,544 27,766 5,793 8,384	65,446 35,847 10,471 14,263 26,198 5,250 8,066 37,048
36,750 329,803 7,020 12,605 29,464 36,610 5,772 25,082 3,310 811,008 9,207	36,086 28,639 6,439 12,130 9,287 6,410 5,699 24,760 3,016 10,897 9,038	34,755 28,605 6,168 12,519 9,483 5,790 5,215 24,185 3,018 11,187 9,234	36,557 29,753 6,971 12,736 9,233 6,972 5,643 24,755	29,696 25,625 5,361 11,412 8,401 4,734 4,589 20,824 2,540	70,192 36,989 11,812 14,410 28,221 5,742 8,667 38,329 5,496	69,641 36,730 11,633 14,259 27,815 5,759 8,577 38,328	69,330 36,678 11,593 14,236 27,452 5,806 8,653 38,268	69,741 37,034 11,393 14,706 28,065 5,756 8,548	69,233 36,616 11,188 14,544 27,766 5,793 8,384	65,446 35,847 10,471 14,263 26,198 5,250 8,066 37,048
7,020 12,605 2 9,464 6,610 2 5,772 2 25,082 3 3,310 8 11,008 9,207	6,439 12,130 9,287 6,410 5,699 24,760 3,016 10,897 9,038	28,605 6,168 12,519 9,483 5,790 5,215 24,185 3,018 11,187 9,234	29,753 6,971 12,736 9,233 6,972 5,643 24,755	25,625 5,361 11,412 8,401 4,734 4,589 20,824	11,812 14,410 28,221 5,742 8,667 38,329	11,633 14,259 27,815 5,759 8,577 38,328	11,593 14,236 27,452 5,806 8,653 38,268	11,393 14,706 28,065 5,756 8,548	11,188 14,544 27,766 5,793 8,384	10,47: 14,26: 26,198 5,250 8,066 37,048
12,605 9,464 6,610 5,772 25,082 3,310 11,008 9,207	12,130 9,287 6,410 5,699 24,760 3,016 10,897 9,038	12,519 9,483 5,790 5,215 24,185 3,018 11,187 9,234	12,736 9,233 6,972 5,643 24,755 3,298 11,029	11,412 8,401 4,734 4,589 20,824	14,410 28,221 5,742 8,667 38,329 5,496	14,259 27,815 5,759 8,577 38,328	14,236 27,452 5,806 8,653 38,268	14,706 28,065 5,756 8,548	14,544 27,766 5,793 8,384	14,26; 26,198 5,250 8,066 37,048
12,605 9,464 6,610 5,772 25,082 3,310 11,008 9,207	12,130 9,287 6,410 5,699 24,760 3,016 10,897 9,038	12,519 9,483 5,790 5,215 24,185 3,018 11,187 9,234	12,736 9,233 6,972 5,643 24,755 3,298 11,029	11,412 8,401 4,734 4,589 20,824	14,410 28,221 5,742 8,667 38,329 5,496	14,259 27,815 5,759 8,577 38,328	14,236 27,452 5,806 8,653 38,268	14,706 28,065 5,756 8,548	14,544 27,766 5,793 8,384	14,26; 26,198 5,250 8,066 37,048
3 6,610 5,772 2 5,082 2 25,082 3 3,310 11,008 9,207	6,410 5,699 24,760 3,016 10,897 9,038	5,790 5,215 24,185 3,018 11,187 9,234	5,643 24,755 3,298 11,029	4,734 4,589 20,824 2,540	5,742 8,667 38,329 5,496	5,759 8,577 38,328	5,806 8,653 38,268	5,756 8,548	5,793 8,384	5,250 8,066 37,043
3,310 11,008 9,207	3,016 10,897 9,038	3,018 11,187 9,234	24,755 3,298 11,029	20,824	38,329 5,496	38,328	38,268		1 .	37,045
3,310 11,008 9,207	3,016 10,897 9,038	3,018 11,187 9,234	3,298 11,029	2,540	5,496			38,307	38,174	ŕ
11,008 9,207	10,897 9,038	11,187 9,234	11,029			5 411				
	1	1,953	9,146 1,883	8,319 1,751	31,691 25,652 6,039	5,411 31,165 25,242 5,923	5,373 30,806 24,940 5,866	5,339 31,483 25,583 5,900	5,265 31,138 25,165 5,973	4,840 29,468 24,240 5,228
	New o	r ders				-	Unfille	d orders	rs	
67,587	65,454	64,685	67,102	55,663	84,965	83,947	82,906	84,346	83,015	72,47
37,619 29,968		36,052 28,633	37,167 29,935	30,026 25,637	80,982 3,983	80,047 3,900	79,174 3,732	80,416 3,930	79,115 3,900	69,411 3,06
										l
6,935 12,609		6,062 12,525	6,791 12,747	5,237 11,419	2,520	2,601	2,680	2,429	2,528	2,14
	9,585 6,556	10,377 5,880	9,394 7,118	8,427 4,871	43,729	42,785	42,169	43,643	42,659	38,31
	5,661	5,335	5,525	4,515	9,899	9,692	9,740	9,735	9,613	9,08
23,027	23,007	24,500	20,021	31,134	20,017	20,005	20,317	20,339	20,213	ادو رعم
3 210	11,359	2,937 11,886	3,101 11,361 9.581	2,419 10,094	2,057 49,939	2,139 49,191	2,238 48,522	1,981 49,740	2,062 49,040 28,763	1,73 43,30 25,14 18,16
8 8	8 10,043 6,649 9 5,724 3 25,627 7 3,210 5 11,676	8 10,043 9,585 8 6,649 6,556 9 5,724 5,661 3 25,627 25,007 7 3,210 3,094 5 11,676 11,359	8 10,043 9,585 10,377 8 6,649 6,556 5,880 9 5,724 5,661 5,335 3 25,627 25,007 24,506 7 3,210 3,094 2,937 5 11,676 11,359 11,886	8 10,043 9,585 10,377 9,394 8 6,649 6,556 5,880 7,118 9 5,724 5,661 5,335 5,525 3 25,627 25,007 24,506 25,527 7 3,210 3,094 2,937 3,101 5 11,676 11,359 11,886 11,361	8 10,043 9,585 10,377 9,394 8,427 8 6,649 6,556 5,880 7,118 4,871 9 5,724 5,661 5,335 5,525 4,515 3 25,627 25,007 24,506 25,527 21,194 7 3,210 3,094 2,937 3,101 2,419	8 10,043 9,585 10,377 9,394 8,427 8 6,649 6,556 5,880 7,118 4,871 43,729 9 5,724 5,661 5,335 5,525 4,515 9,899 3 25,627 25,007 24,506 25,527 21,194 28,817 7 3,210 3,094 2,937 3,101 2,419 2,057	8 10,043 9,585 10,377 9,394 8,427 6,649 6,556 5,880 7,118 4,871 43,729 42,785 9 5,724 5,661 5,335 5,525 4,515 9,899 9,692 3 25,627 25,007 24,506 25,527 21,194 28,817 28,869 7 3,210 3,094 2,937 3,101 2,419 2,057 2,139 5 11,676 11,359 11,886 11,361 10,094 49,939 49,191	12,009 13,133 12,333 12,741 11,419) 8 10,043 9,585 10,377 9,394 8,427 43,729 42,785 42,169 6,649 6,556 5,880 7,118 4,871 43,729 42,785 42,169 9 5,724 5,661 5,335 5,525 4,515 9,899 9,692 9,740 3 25,627 25,007 24,506 25,527 21,194 28,817 28,869 28,317 7 3,210 3,094 2,937 3,101 2,419 2,057 2,139 2,238 5 11,676 11,339 11,886 11,361 10,094 49,939 49,191 48,532	8 10,043 9,585 10,377 9,394 8,427 8,649 6,556 5,880 7,118 4,871 43,729 42,785 42,169 43,643 9 5,724 5,661 5,335 5,525 4,515 9,899 9,692 9,740 9,735 3 25,627 25,007 24,506 25,527 21,194 28,817 28,869 28,317 28,539 7 3,210 3,094 2,937 3,101 2,419 2,057 2,139 2,238 1,981 5 11,676 11,359 11,886 11,361 10,094 49,939 49,191 48,522 49,740	8 10,043 9,585 10,377 9,394 8,427 43,729 42,785 42,169 43,643 42,659 8 6,649 6,556 5,880 7,118 4,871 43,729 42,785 42,169 43,643 42,659 9 5,724 5,661 5,335 5,525 4,515 9,899 9,692 9,740 9,735 9,613 3 25,627 25,007 24,506 25,527 21,194 28,817 28,869 28,317 28,539 28,215 7 3,210 3,094 2,937 3,101 2,419 2,037 2,139 2,238 1,981 2,062 5 11,676 11,339 11,886 11,361 10,094 49,939 49,191 48,522 49,740 49,040

*During 1968 manufacturers in ordnance, communications, aircraft and aircraft parts, and shipbuilding industries began to provide aggregate figures on shipments, orders, and total inventories of work performed for the Department of Defense. The results of these reports are included in the defense series.

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*Shipments and new orders adjusted for trading-day and calendar-month variations, unfilled orders and inventories as of end of month.

*The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; ophthalmic goods, watches, and clocks, and miscellaneous personal goods.

appliances; ophthalmic goods, watches, and clocks, and miscellaneous personal goods.

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances and electronic components), and the mondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products - Based on separate reports on defense work filed by large defense contractors in the following industries: ordnance,

Defense products - Based on separate reports on defense work filed by large defense contractors in the following industries: ordnance communications, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERLENT CHANGES

Based on seasonally adjusted data

	Mor	ith-to-mon	th	Aver	age monthly	ange	Average, 1966-1971		
Item and industry group	Nov	Oct	Sept		3 months		12 months	A	
	Dec. 1972	Nov. 1972	0ct. 1972	SeptDec. 1972	June-Sept. 1972	MarJune 1972	Dec. 1971- Dec. 1972	Average rise	Average decline
Shipments:									
All manufacturing industries	-0.4	+2.8	+1.3	+1.2	+1.5	+0.5	+1.2	+1.3	-1.2
Durable goods industries, total	-1.1	+1.8	+3.0	+1.2	+1.9	+0 . 5	-1.4	+2.1	-1.8
Nondurable goods industries, total	+0.5	+4.1	-0.8	+1.3	+0.9	+0.5	+0.9	+0.8	-0.5
Total inventories:									
All manufacturing industries	+0.8	+0.3	+0.5	+0.5	+0.6	+0.4	-0.5	+0.5	-0.2
New orders:									
All manufacturing industries	-0.4	+3.3	-0.5	+0.8	+1.1	+1.4	-1.3	+1.9	-1.2
Durable goods industries, total	-0.9	+2.3	-0.2	+0.4	+1.2	+2.2	+1.6	+2.9	-2.6
Nondurable goods industries, total	+0.3	+4.4	-0.8	+1.3	+0.9	+0.4	+0.9	+0.9	-0.5
Unfilled orders:	-								
Durable goods industries, total	+1.2	+1.1	+0.9	+1.1	+1.5	+1.6	+1.2	+0.8	-1.1

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FASRICATION, BY INDUSTRY GROUP
(Millious of dollars)

Iodustry group	Seasonally adjusted			Without seasonal adjustment			Season	a lly adj	usted	Without seasonal adjustment		
loudstry group	Dec. 1972 ^p	Nov. 1972 ^r	Oct. 1972	Dec. 1972 ^p	Nov. 1972	Dec. 1971	Dec. 1972 ^p	Nov. 1972 ^r	Oct. 1972	Dec. 1972 ^p	Nov. 1972 ^r	Dec. 1971
			Tot	al				Mat	erials a	nd suppl	ies	
All manufacturing industries, total	107,181	106,371	106,006	106,775	105,849	101,293	33,715	33,548	33,379	34,152	33,606	33,11
Durable goods iodustries, total	70,192	69,641	69,330	69,741	69,233	65,446	19,919	19,812	19,701	20,084	19,830	19,31-
Stone, clay, and glass products Primary metals	2,388 9,578 24,581 16,758 16,887	2,378 9,617 24,267 16,581 16,798	2,385 9,664 24,009 16,486 16,786	2,330 9,763 24,369 16,668 16,611	2,270 9,699 24,071 16,717 16,476	2,226 9,378 23,138 15,091 15,613	763 3,424 6,658 2,776 6,298	790 3,460 6,515 2,807 6,240	794 3,440 6,389 2,900 6,178	770 3,602 6,667 2,812 6,233	785 3,576 6,445 2,852 6,172	760 3,673 6,259 2,967 5,658
Nondurable goods iodustries, total	36,989	36,730	36,678	37,034	36,616	35,847	13,796	13,736	13,678	14,068	13,776	13,800
Chemicals and allied products	6,835 2,241 2,346 25,567	6,831 2,264 2,277 25,358	6,801 2,261 2,255 25,361	6,859 2,273 2,346 25,556	6,722 2,296 2,271 25,327	6,720 2,298 2,152 24,677	2,307 535 666 10,288	2,318 532 645 10,241	2,309 520 642 10,207	2,332 536 666 10,534	2,309 525 657 10,285	2,312 539 631 10,318
	Work in process						Finished goods					
All manufacturing industries, total	38,449	37,921	37,675	37,986	37,882	34,546	35,017	34,902	34,954	34,637	34,361	33,633
Durable goods rodustries, total	32,724	32,321	32,070	32,391	32,330	29,320	17,549	17,508	17,559	17,266	17,073	16,813
Stone, clay, and glass products Primary metals Machinery (electrical and nonelectrical). Transportation equipment All other durable goods industries	256 3,322 11,027 12,808 5,311	301 3,303 10,847 12,537 5,333	301 3,350 10,697 12,348 5,374	242 3,340 10,922 12,694 5,193	276 3,321 10,547 12,624 5,260	280 3,056 10,171 10,766 5,047	1,369 2,832 6,896 1,174 5,278	1,287 2,854 6,905 1,237 5,225	1,290 2,874 6,923 1,238 5,234	1,318 2,821 6,780 1,162 5,185	1,207 2,802 6,779 1,241 5,044	1,186 2,649 6,708 1,358 4,911
Nondurable goods industries, total	5,725	5,600	5,605	5,595	5,552	5,226	17,468	17,394	17,395	17,371	17,288	16,821
Chemicals and allied products	1,081 462 379 3,803	1,050 484 360 3,706	1,034 502 358 3,711	1,095 455 382 3,663	1,040 481 362 3,669	1,025 473 331 3,397	3,447 1,244 1,301	3,463 1,248 1,272 11,411	3,458 1,239 1,255 11,443	3,432 1,282 1,298 11,359	3,373 1,290 1,252 11,373	3,383 1,286 1,190 10,962

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Table 5.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP Based on seasonally adjusted data)

	Inven	tories - s	hipments r	atio	Unfilled orders - shipments r months' backlog)					
Industry group	Dec. 1972 ^p	Nov. 1972	Oct. 1972	0ec. 1971	0ec, 1972 ^p	Nov. 1972	Oct. 1972	Dec. 1971		
All manufacturing industries, total	1.62	1,60	1.64	1,76	2.15	2,11	2, 12	2,1		
Ourable goods industries, total	1.93	1.89	1,92	2,13	2.55	2,51	2,52	2,5		
Stone, clay, and glass products	1.11	1.11	1.12	1.29	(NA)	(NA) 1.48	(NA) 1.45	(NA 1.3		
Primary metals	2.16	1,67 2,16	1,68 2,14	2,00 2,27	3.29	3,28	3.23	3.3		
Machinery, except electrical Electrical machinery	2,35 2,08	2,35 2,03	2.38	2,56 2,19	2.57 3.08	2,52	2,51 3,09	2,3		
Transportation equipment	2.02	1,88	1.88	2,22	5.82	5.46	5,26	5.7		
Instruments and related products	2.40	2.33	2.40	2,49	(NA)	(NA)	(NA)	(NA		
ondurable goods industries, total	1,23	1,23	1.28	1,33	0.51 (x)	0.49	0.49	0.4		
Food and kindred products	4.76	0,94 4,35	0,99	1,02 4,62	(x)	(X) (X)	(X) (X)	(:		
Textile mill products	1.52	1.59	1.74	1.67	(NA)	(NA)	(NA)	(N.		
Paper and allied products	1.18	1,14	1,16	1,27	(NA)	(NA)	(NA)	(N		
Chemicals and allied products	1.30	1,37	1.39	1,49	(X)	(X)	(X)	(
Petroleum and coal products	0.90	0,91	0.95 1.47	1,06 1,51	(X)	(X) (X)	(X)	(

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

Excludes the following industries with no unfilled order: Wooden containers; glass containers; metal cans, barrels and drums; motor vehicle assembly operations; foods and related products; tobacco; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

Appendix

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF THE SURVEY

The Manufacturers' Shipments, Inventories, and Orders survey provides monthly figures that are comparable to the annual totals published each year in the annual survey of manufactures (ASM). The ASM is based on a sample of approximately 60,000 manufacturing establishments drawn from the 5-year census universe of about 310,000 estab-In the ASM, each manufacturing lishments. establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. The establishments do not provide information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification System (SIC) and area data for industry groups.

The monthly survey M3-1 does not provide information at the complete SIC industry detail because of the smaller size of the reporting panel and the fact that most companies cannot provide shipments, inventories, and orders data monthly for individual establishments.

The monthly reporting panel consists of approximately 5,000 reporting units and includes virtually all companies with 1,000 or more employees and a sample of the smaller ones. The reporting unit typically comprises the entire operations of a company although many of the larger diversified companies file separate divisional type reports for their operations in different industries.

Most of the reporting units include mixed industry activity even within the broad industry categories of the monthly survey. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category represent effectively the month-to-month movements of the establishments in the SIC industries which make up the category. Thus, the monthly reports are used to update the ASM estimates by using a link relative of matched companies in each industry.

EXPLANATION OF TERMS

Value of Shipments--Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant. after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the aircraft industry and shipbuilding, the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed aircraft or ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for the all manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from one division of the company to another as if they were net sales to outside customers. Although this



definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (11FO, F1FO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations during the month. They include orders received during the period and also filled during the period as well as those orders received for future delivery. They also include the net sales value of contract change documents which increase or decrease the sales value of the unfilled orders to which they relate. Orders include only those supported by binding legal documents such as signed contracts, or letter contracts. In case of letter contracts the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are in-

Unfilled orders include orders as defined above that have not yet passed through the sales account. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net sales.

cluded. The respondent is instructed to deduct

the sales value of paritial or complete cancellation

of existing orders.

While both new orders and unfilled orders are used in reviewing individual company reports for consistency, only unfilled orders are estimated directly in the tabulated totals. New orders are derived from the shipments plus net change in unfilled orders for each industry category. This procedure is followed for seasonally adjusted data as well as for the unadjusted data. Shipments and unfilled orders are seasonally adjusted independently. Seasonally adjusted new orders are derived from seasonally adjusted shipments and seasonally adjusted unfilled orders.